

Beaumont Fire-Rescue Services

PERFORMANCE BENCHMARKS

407.01E

Tying a Figure Eight on a Bight (*Ends Alike*)

Discipline: Ropes, Knots, & Hitches
Effective: 1/1/2001
Revised: 1/5/2012
Replaces: Firefighter Benchmark #41

Anne Huff, Fire Chief

I. Objective

The firefighter shall demonstrate tying a figure eight on a bight in preparation for hoisting a ladder. The firefighter shall select the type and length of rope which will be adequate to meet the provisions of this skill. The firefighter shall verbally identify five (5) potential elements of rope degradation. The firefighter shall verbally identify the working, standing, and running sections of the rope. Because of various acceptable sequential steps in completing a finished knot, the examiner will primarily evaluate the finished product for accuracy by comparing the knot to reference materials. The firefighter shall accomplish the skill in four (4) minutes or less.

II. Instructions – Procedures for Achieving the Objective

You will select the type and length of rope which will be adequate to meet this skill. You will verbalize five (5) potential elements of rope degradation. You shall demonstrate tying a figure eight on a bight, with a safety, in preparation for hoisting a ladder. You must tie an approved safety knot to complete this skill. You will verbally identify the working, standing, and running sections of the rope. I will primarily evaluate the finished product for accuracy by comparing the knot to reference materials. You will have four (4) minutes to complete this skill. The skill will commence on my instruction to start. Time will stop when all the identified steps have been accomplished and you put your hands in the air to signal that you are finished with this skill. Do you understand these instructions?

III. Examiner's Note

The firefighter will not be allowed to review the performance steps at the time of testing.

IV. Preparation & Equipment

- A. 1 single section of ladder
- B. An adequate length of rope
- C. The firefighter shall accomplish the skill wearing a helmet.

V. Reference Sources

- A. TCFP, Performance Standard, Section 104-4.01
- B. NFPA, National Fire Protection Association 1001, 3-1.1.2
- C. IFSTA Essentials of Fire Fighting, 4th Edition, pages 115, 154-155, 157, 168.

407.01E - Tying a Figure Eight on a Bight (*Ends Alike*)
Discipline: Ropes, Knots, & Hitches

| | |
|------------|------------|
| Name: | Officer #: |
| Evaluator: | Officer #: |
| Date: | Location: |

If the firefighter:

(No partial points given)

- a) *Inspects the rope for damage and verbalizes at least 5 elements of rope damage.* (Elements could include: softness, crusty spots, stiffness, brittleness, nicks, cuts, dirt, mildew, heat sears or discoloration fuzziness, mushy spots, sheath sliding, lumps and/or depressions.)..... 1.0 _____
- b) Correctly measures the rope for desired size 1.0 _____
- c) Ties a figure eight on a bight and applies to a ladder 1.0 _____
- d) Ties safety to standing part 1.0 _____
- e) Completes the skill in the allotted time 1.0 _____

Allotted time for this skill: 4 minutes

Time: _____ minutes _____ seconds

| Points Possible | Passing Score | Attempt | Performance Rating (Points) | PASS | FAIL |
|-----------------|---------------|---------|-----------------------------|------|------|
| 5 | 3 | First | | | |
| | | Second | | | |
| | | Third | | | |